

Notice of Allowability

Application No.

10/717,894

Examiner

TISHA D. LEWIS

Applicant(s)

IMAZU ET AL.

Art Unit

3681

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment received on June 21, 2005.
2. ☒ The allowed claim(s) is/are 1,3-8 and 11-14.
3. ☒ The drawings filed on 21 June 2005 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

5.00

DETAILED ACTION

The following is a response to the amendment received on June 21, 2005 which has been entered.

Response to Amendment

Claims 1, 3-8 and 11-14 are pending in the application. Claims 2, 9 and 10 have been cancelled.

-The drawings were received on June 21, 2005. These drawings are approved.

-The objection to the abstract has been withdrawn due to applicant submitting a new abstract.

-The objection to the specification has been withdrawn due to applicant correcting the differences between "revolution speed control" and "torque control" for the motor generators.

-The objection to claims 1, 4, 6, 13 and 14 has been withdrawn due to applicant correcting typographical errors.

-The 112 2nd rejection of claims 1-14 has been withdrawn due to applicant amending claims 1, 13 and 14 with limitations supporting why the term "saturated" is used. Claim 2 has been cancelled.

Allowable Subject Matter

Claims 1, 3-8 and 11-14 are allowed. The following is an examiner's statement of reasons for allowance: The prior art of record does not disclose or render obvious a motivation to provide for:

-(as to claim 1) a transmission control system for a hybrid vehicle having a controller controlling one motor generator by a revolution speed control for transmission ratio change and controlling another motor generator by a torque control for output to the vehicle wherein the controller changes the torque control motor generator to the revolution speed control and changes the revolution speed control motor generator to the torque control when a torque detector is out of range between upper and lower torque limits of the revolution speed control motor generator, the controller determines that the torque of the motor generator is saturated and when a speed detector is out of a range between upper and lower revolution speed limits of the torque control motor generator, the controller determines that the speed of the motor generator is saturated in combination with all the remaining limitations of claim 1.

-(as to claims 13 and 14) a method of controlling and a control system for a hybrid vehicle having a controller controlling one motor generator by a revolution speed control for transmission ratio change and controlling another motor generator by a torque control for output to the vehicle wherein the controller changes the torque control motor generator to the revolution speed control when torque is saturated and changes the revolution speed control motor generator to the torque control when speed is saturated when a torque is out of range between upper and lower torque limits of the revolution speed control motor generator and when a speed is out of a range between upper and lower revolution speed limits of the torque control motor generator, in combination with all the remaining limitations of claims 13 and 14.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TISHA D. LEWIS whose telephone number is 571-272-7093. The examiner can normally be reached on M-Thur 6 AM TO 2:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, CHARLES A. MARMOR can be reached on 571-272-7095. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tdl
July 7, 2005



TISHA LEWIS
PRIMARY EXAMINER
Au 3681 7/7/05

FIG.8
PRIOR ART

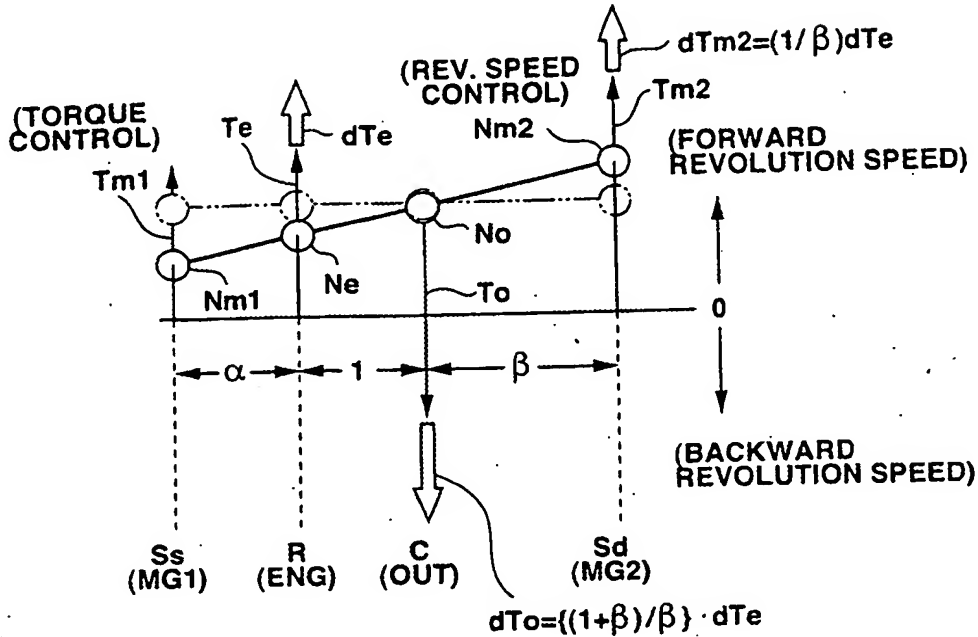
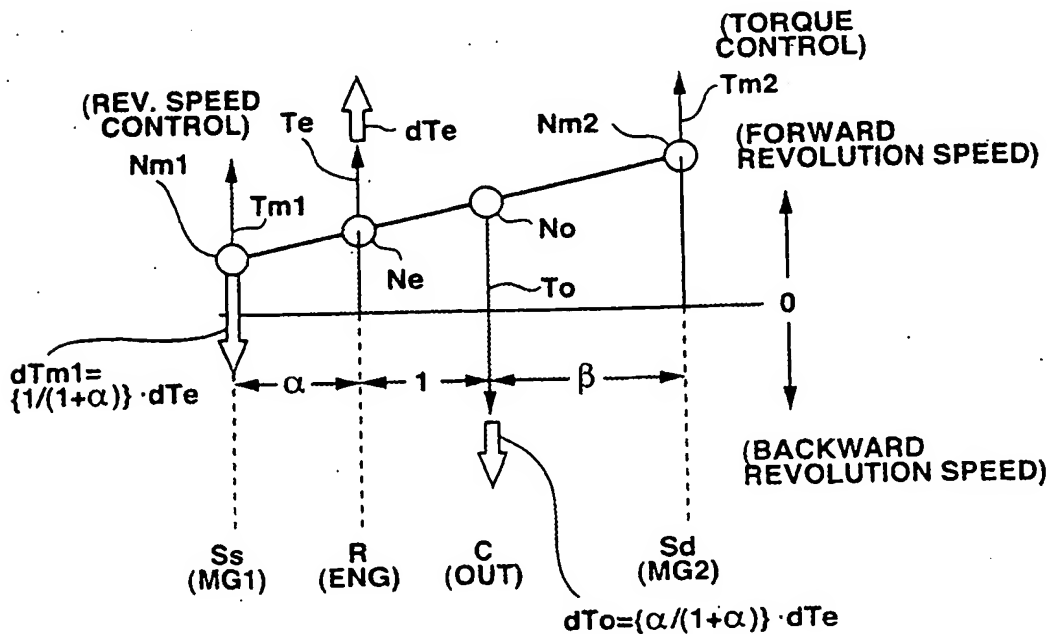


FIG.9



Drawing Approved
7/4/05 TEL